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Waste Site Reclassification Form

Date Submitted: 8/27/1999	**Operable Unit(s):** 200-CW-5	**Control Number:** 99-065
Originator: B. H. Ford	**Waste Site ID:** UPR-200-W-106	
Phone: 372-9176	**Type of Reclassification Action:**	
	Rejected ◉	
	Closed-Out ○	
	No Action ○	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The site is historically identified as an unplanned release. The site is posted with "Underground Radioactive Material" warning signs. The leach trenches were stabilized along with the 216-U-10 Pond. The AC-540 markers at the ends of the trenches are labeled 216-U-10 and URM. (The trench was designed to intentionally receive overflow from the pond. The water that filled the trench was not an "Unplanned Release". Engineered structures were typically assigned a number from historical Hanford waste site naming conventions. Since trenches like this one did not match any of the usual site name choices, they were given UPR numbers for lack of a better choice.)

Basis for reclassification:

This site is fully contained within the boundary of the 216-U-10 Pond and will be dispositioned with 216-U-10 Pond.

BRYAN L. FOLEY	Bryan L. Foley	1/26/00
DOE Project Manager	Signature	Date
Ecology Project Manager	Signature	Date
Douglas R. Sherwood	Douglas R. Sherwood	1/25/00
EPA Project Manager	Signature	Date

Waste Information Data System
General Summary Report

11/23/1999

Site Code: UPR-200-W-106 **Site Classification:** Accepted

Site Names:	UPR-200-W-106, UN-216-W-16, 216-U-10 Pond Leach Trench		
Site Type:	Unplanned Release	**Start Date:**	
Status:	Inactive	**End Date:**	
Operable Unit:	200-CW-5	**Coordinates:**	
Hanford Area:	200W	(E) 0	
		(N) 0	
		Washington State Plane	

Site Description: The site is historically identified as an unplanned release. The release site is posted with "Underground Radioactive Material" warning signs. The leach trenches were stabilized along with the 216-U-10 Pond. The AC-540 markers at the ends of the trenches are labeled 216-U-10 and URM.

This site has been consolidated with the 216-U-10 Pond.

Location Description: The trench runs east from the east side of the 216-U-10 Pond and is south of the UPR-200-W-105 Trench.

Process Description: The trench was dug to provide additional leaching area for 216-U-10 Pond overflow water.

Associated Structures: UPR-200-W-106 was associated with the 216-U-10 Pond.

Site Comment: The trench was designed to intentionally receive overflow from the pond. The water that filled the trench was not an "Unplanned Release". Engineered structures were typically assigned a number from historical Hanford waste site naming conventions. Since trenches like this one did not match any of the usual site number choices, they were given UPR numbers for lack of a better choice.

A radiological survey of the bottom of the trench was performed in 1978. General contamination was 2000 counts per minute in the east end of the trench and 3000 counts per minute in the west end of the trench. Soil samples collected in 1978 from the trench bottom at the east end showed 14.4 picocuries per gram (pCi/g) of potassium-40, 26.9 picocuries per gram (pCi/g) of strontium-90 and 978 picocuries per gram (pCi/g) of cesium-137. Soil samples collected in 1978 from the trench bottom at the west end showed 13.3 pCi/g of potassium-40, 58.5 picocuries per gram (pCi/g) of strontium-90 and 1350 picocuries per gram (pCi/g) of cesium-137. Soil samples collected in 1978 from the trench bottom at the middle showed 13.4 picocuries per gram (pCi/g) of potassium-40, 32.2 picocuries per gram (pCi/g) of strontium-90 and 1020 picocuries per gram (pCi/g) of cesium-137.

Cleanup Activities: The trench was backfilled and surface stabilized in 1985, along with the 216-U-10 Pond.

Environmental Monitoring Description: A surface radiological survey is done annually on the backfilled trench. A 1978 radiation survey found Geiger-Mueller readings in the bottom of the trench were generally 2,000 counts per minute in the east end of the trench and 3,000 counts per minute in the west end of the trench. Analyses of soil samples taken in 1978 detected maximum levels of 14 picocuries per gram (pCi/g) of potassium-40, 58 picocuries per gram (pCi/g) of strontium-89/90, and 1350 picocuries per gram (pCi/g) of cesium-137 on the bottom of the trench.

References:

1. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.
2. R. L. Morton, 8/80, Current Status of Outdoor Radiation Areas in the 200 Areas, RHO-CD-1048.
3. R. D. Stenner, K. H. Cramer, D. A. Lamar, 10/88, Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford, PNL-6456 Vol 1,2,3.
4. T. M. Wintczak, 5/20/92, Federal Facility Agreement and Consent Order Change Control Form - Change to 200-UP-2 Work Plan scope and M-12-15 interim milestone date. (TPA), M-12-92-1.
5. S.M. McKinney, 12/06/94, Status of Outdoor Radiological Contamination at the Hanford Site, WHC-SP-1149.
6. Markes, B.M., S.M. McKinney, 12/15/95, Routine Environmental Monitoring Schedule, Calendar Year 1996, WHC-SP-0096-7.
7. CR Webb, 5-25-99, Telephone Conversation with WM Hayward related to Stabilization Dates of the U Pond Fingers.

Dimensions:

Length:	121.92	Meters	400.00	Feet
Width:	7.62	Meters	25.00	Feet
Depth / Height:	2.44	Meters	8.00	Feet

References: 1. R. D. Stanner, K. H. Cramer, D. A. Lamar, 10/88, Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford, PNL-6456 Vol 1,2,3.

Regulatory Information:

Programmatic Responsibility

DOE Program: EM-40 **Confirmed By Program:** Yes

DOE Division: RPD - Restoration Projects Division

Responsible Contractor/Subcontractor: BHI - Bechtel Hanford, Inc.

Site Evaluation

Solid Waste Management Unit: No

TPA Waste Management Unit Type: Unplanned Release Unit

This Site Was Consolidated With:

216-U-10, U Swamp, 216-U-1, 216-U-10 Pond, 231 Swamp

Reason: Within Boundary Of Larger Site

Permitting

RCRA Part A Permit:	No	**216/218 Permit:**	No
RCRA Part B Permit:	No	**NPDES:**	No
Closure Plan:	No	***State Waste Discharge Permit:***	No
TSD Number:		**Septic Permit:**	No
Air Operating Permit:	No	**Inert Landfill:**	No

Air Operating Permit Number(s):

Tri-Party Agreement

Lead Regulatory Agency: EPA

Unit Category: CERCLA Past Practice (CPP)

TPA Appendix: C

Remediation and Closure

Decision Document:

Decision Document Status:

Remediation Design Group:

Closure Document:

Closure Type:

Post Closure Requirements:

Residual Waste:

Waste Information:

Type: *Process Effluent*

Category: Mixed

Physical State:	Liquid
Waste Obscured:	Soil Overburden
Description:	A leach trench was dug to provide additional leaching surface for overflow water from the 216-U-10 Pond. There is low-level, beta/gamma and alpha activity in the ground surface on the bottom of the leach trench. Potential contaminants of concern include cesium-137, strontium-89, strontium-90, and potassium-40.
References:	1. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.

Field Work:

Type:	Site Walkdown		
Begin Date:	07/30/1999	**Field Crew:**	CR Webb
End Date:	07/30/1999		
Purpose:	verification		
Comment:	The leach trenches were stabilized along with the 216-U-10 Pond. The AC-540 markers at the ends of the trenches are labeled 216-U-10 and URM.		
Site Cover:			
Site Accessible:	No	**Site Found:**	Yes
Soil Discoloration:	No	**Debris Visible:**	No
Vegetation Type:	Bunchgrasses		
References:	1. C. R. Webb, Field Logbook assigned to Christine Webb, EL-1255 and EL-1255-1.		

Images:

Date Taken:	7/30/99
Pathname:	\\bhi002\esd-img\200W\1419\1419_01.JPG
Description:	Photo shows the stabilized leach trenches at 216-U-10 Pond. The UPR is not separately marked or posted.
Date Taken:	7/30/99
Pathname:	\\bhi002\esd-img\200W\1419\1419_02.JPG
Description:	Photo shows the stabilized leach trenches at 216-U-10 Pond. The UPR is not separately marked or posted.